

# **PHENIX WEEKLY PLANNING**

3/27/2008

Don Lynch

# Shutdown '08 Schedule

CM Crane Review	Mar. 22-26
Purge Flammable Gas, Magnet & DAQ Tests	Done
Remove lock-out & open shield wall	Done
Mu Trigger Review	Done
RPC Prototype C tests (in tent)	in progress
Disassemble & store shield wall & base	Done
IR Crane certification	Done
New Beam Pipe Design Review	Action Items
Remove Collars	Done
Disconnect EC & move to AH	in progress
Move MMS south	Done
RPC Prototype engineering & safety review	Mar 28
Inventory/test assembly of MMN scaffold	Apr
Install CM access stairs	Apr 7-11
RPC Prototype D tests (in tent)	Apr-May
CM Crane, MMN & sta. 1 scaffolding review	Apr. 2?

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# Shutdown '08 Schedule, cont'd

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Design RPC installation fixtures & FEE platforms	Apr-May
MuTrgr Platform review	mid Apr
Move CM South (MuTr Decaps?)	Apr 15 (tax day)
PC1 west work (needs planning)	Apr 1-30 or Sept.
Install CM Crane	June
Remove North access & MMN 4 lampshades	May
Install Station 1 North scaffolding	May 1
Station 1 North decaps	May
RICH air control move to DC Rack	May
Prep work for Mutrgr platforms (water/elec)	May-June
Prep work for RPC proptotype install	May-June
End of run Party	May 30
Erect MMN scaffolding	June
MMN decaps	June-July
RPC engineering & safety review	mid June
MuTrigger FEE N Install	July
HBD Install	July-August

# Shutdown '08 Schedule, cont'd

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RPC prototype gas system	July
Move shielding for RPC prototype installation	July
RPC prototype cable routing & support	July
Modify crystal palace & vapor barrier	July
Install MuTrigger FEE N platform	July
RPC prototype install	August
Install RPC prototype rack in tunnel south	August
Install Mutrigger FEE's in MMS for RPC test	August
Install MuTrigger FEE South platform	August
Install MuTrgr N&S rack cooling & electric	August
Install MuTrigger N cooling water & air	August
Replace tunnel shielding	Sept
Connect electronics/gas/water/air for RPC	Sept.
Install MuTrigger N& S racks	Sept.
DC East?/West Repairs	Oct.
Remove all installation equipment	Oct.
Prep for run 9	Oct
Close shield wall start shifts	Nov
Start physics	Dec.

- Mu Trigger FEE N & S Done
- New Beampipe Review Done
- CM Crane & MMN Scaffolding & Station 1 Scaffolding - 4/2?
- RPC Prototype 3/27 (informal engineering ) 3/28 AM mechanical design PM safety (gas, electrical, installation)
- MuTrigger N & S rack platform 4/21-5/2 (On deck for design)
- RPC Stations 1, 2 and 3 ~ 6/22-6/20
- VTX/FVTX review ~ 6/1-8/31
- NCC Review ~ 6/1-8/31
- MMS scaffolding (< 2009)

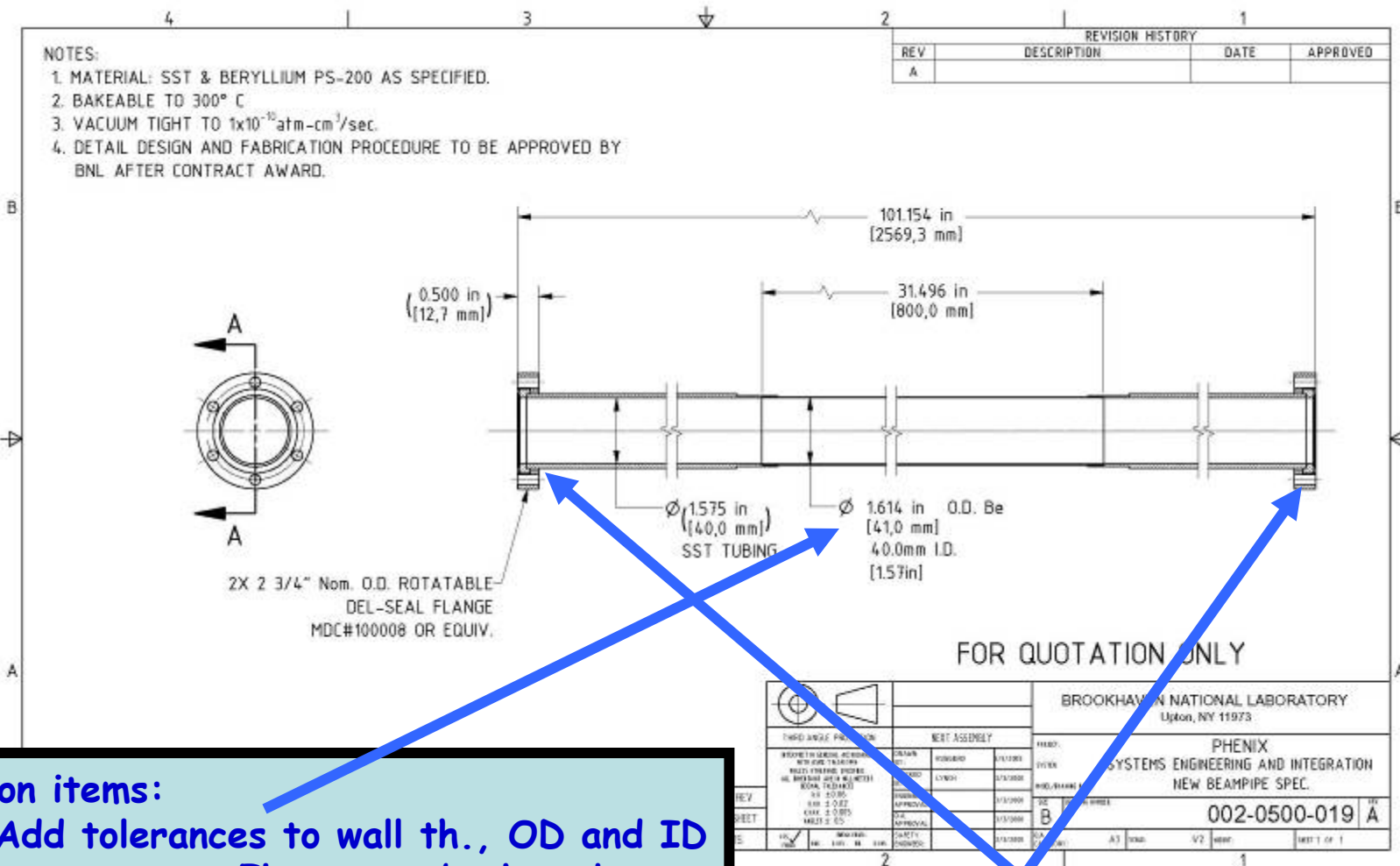
# Work Permit Requirements

- Standard Shutdown Commencement tasks (covered by approved procedures) Done
- PC1 Repairs
- CM Crane Installation
- MuTrigger FEE Upgrade (North & South) & MuTr Decaps, (including confined space for MMS & MMN and scaffold installation)
- RPC Prototype Installation
- HBD re-installation
- MuTrigger FEE rack platform installation
- (More will be needed - to be added to the list as appropriate)

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# Design Review Successful

## New Beampipe Design & Review



### Action items:

1. Add tolerances to wall th., OD and ID
2. use non-rot. Flanges at both ends



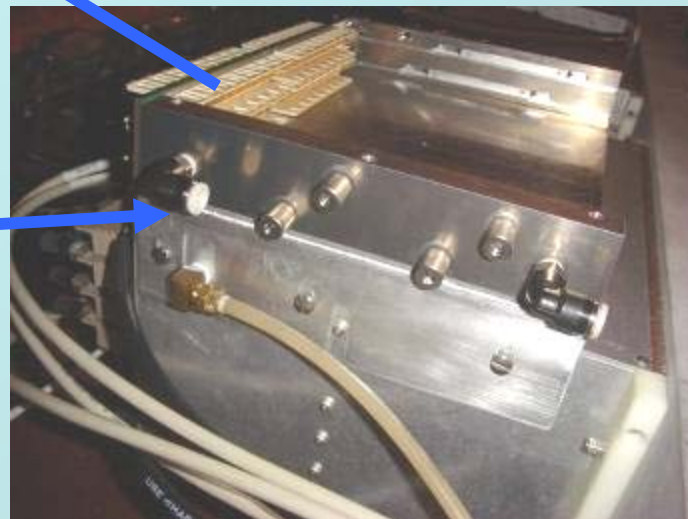
## MuTrigger FEE



### C-A Safety review done

#### Action items:

- Test the ADTX board w/o cooling under the above failure condition to determine the maximum temperature the voltage controller reaches.
- Check the cable tray rating of the proposed low voltage cable.
- Present the scaffolding design to an ESRC review
- Present the platform design to an ESRC review.

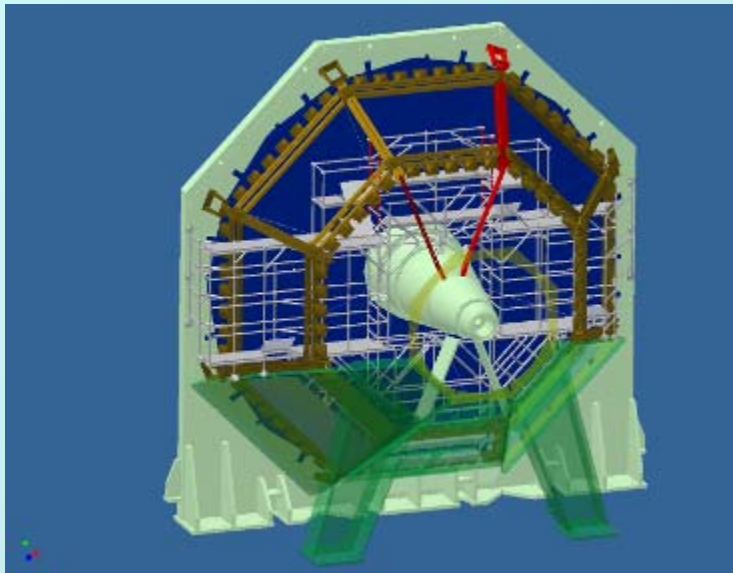
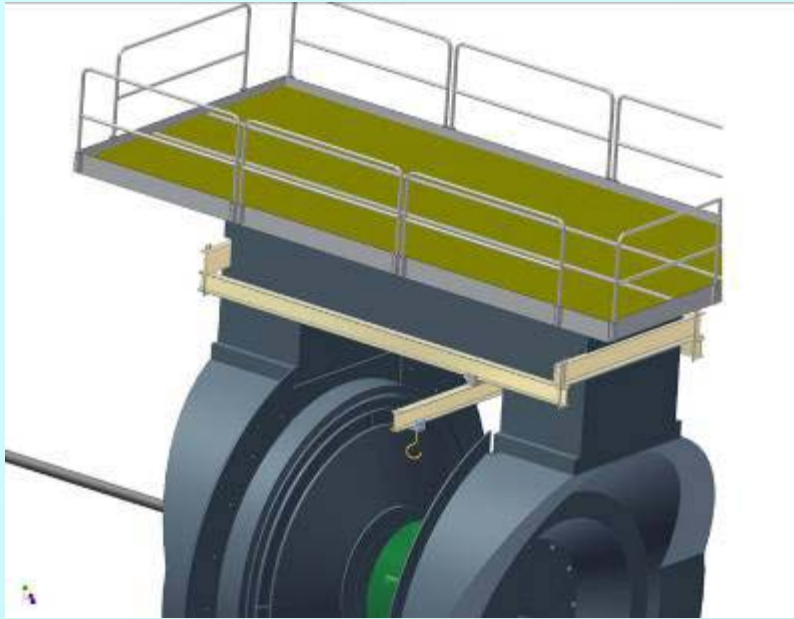




# Combined CM Crane, MMN & Station 1 scaffolding Review

PHENIX

TECHNICAL SUPPORT NOON



Crane and MMN analyses submitted,  
Station 1 analyses this week. Expect  
review next week

# Station 1 scaffolding

Drawing is Done

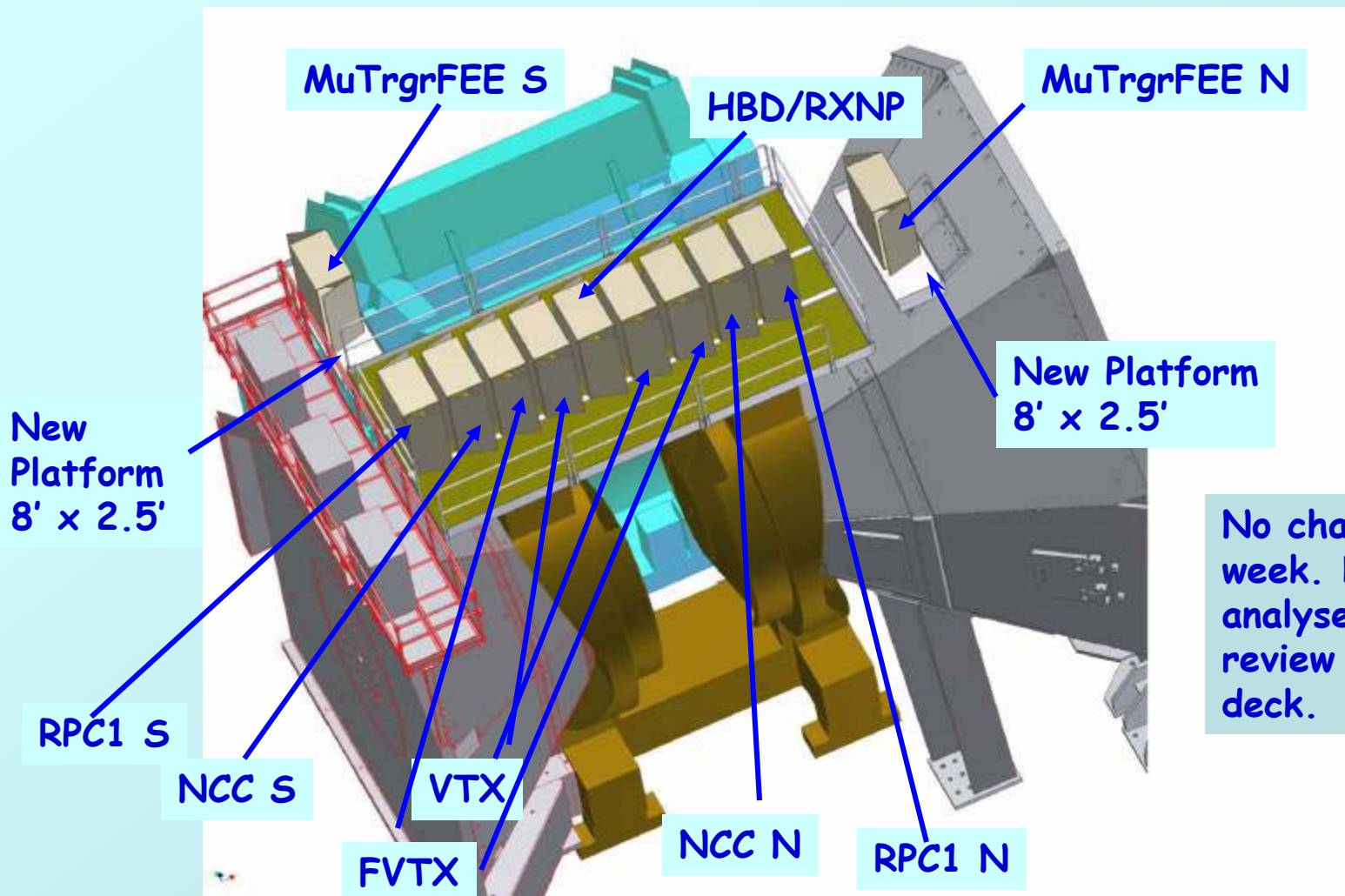
BOM prepared

QTY	PART NUMBER	DESCRIPTION
1	10ft-walk-board	10 ft Walk Board - On Hand
1	10ft-walk-board-with-hatch	10ft Walk Board w/Hatch - On Hand
1	3ft-walk-board	3ft Walk Board - On Hand
12	BASE-BLOCK-10	Base Block DWG# 017511-17
12	No. 13 Side Outlet Cross	No. 13 Side Outlet Cross
52	No. 17 Adj. Elbow / Tee Assembly	No. 17 Adj. Elbow / Tee Assembly
12	No. 45 Square Floor Flange	No. 45 Square Floor Flange
68	No. 5E Tee-E	No. 5E Tee-E
12	No. 70 External Coupling	No. 70 External Coupling
18	No. 7E Cross-E	No. 7E Cross-E
8	Sched40-Pipe103-67	Schedule 40 Alum. Pipe 103.67"
4	Sched40-Pipe118-34	Schedule 40 Alum. Pipe 118.34"
2	Sched40-Pipe124	Schedule 40 Alum. Pipe 124.00"
12	Sched40-Pipe19-34	Schedule 40 Alum. Pipe 19.34"
42	Sched40-Pipe22-34	Schedule 40 Alum. Pipe 22.34"
6	Sched40-Pipe30	Schedule 40 Alum. Pipe 30.00"
4	Sched40-Pipe32-75	Schedule 40 Alum. Pipe 32.75"
6	Sched40-Pipe33-13	Schedule 40 Alum. Pipe 33.13"
54	Sched40-Pipe34-34	Schedule 40 Alum. Pipe 34.34"
10	Sched40-Pipe39-5	Schedule 40 Alum. Pipe 39.50"
2	Sched40-Pipe46-34	Schedule 40 Alum. Pipe 46.34"
3	Sched40-Pipe78-34	Schedule 40 Alum. Pipe 78.34"
4	Sched40-Pipe83-67	Schedule 40 Alum. Pipe 83.67"
6	Sched40-Pipe90-34	Schedule 40 Alum. Pipe 90.34"
4	Sched40-Pipe95-17	Schedule 40 Alum. Pipe 95.17"
8	Sched40-Pipe96	Schedule 40 Alum. Pipe 96.00"
4	Sched40-Pipe97-375	Schedule 40 Alum. Pipe 97.38"
56	No. 11 Side Outlet Tee	No. 11 Side Outlet Tee
235		
Hollaender Mfg.		
P.O. Box 156399		
10285 Wayne Ave.		
Cincinnati, OH 45215-6399.		
513.772.8800 / 800.772.8800		

Need ~ (35) 20' lengths  
Of 1-1/2 sched 40  
6061-T6 alum pipe  
&  
230 assorted  
joints/couplings/tees  
&  
12 fabricated base  
blocks

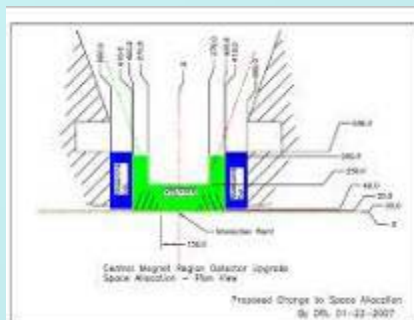
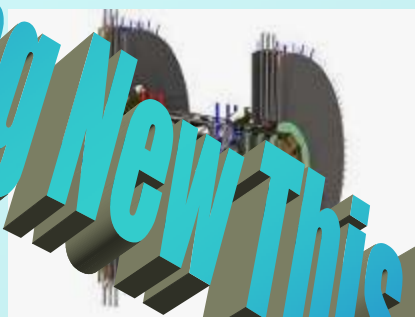
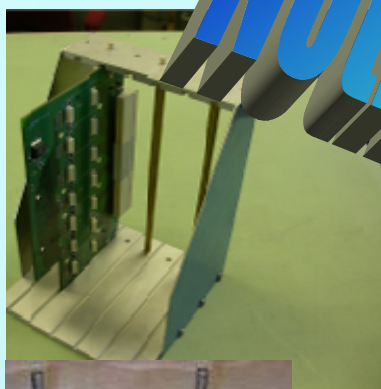
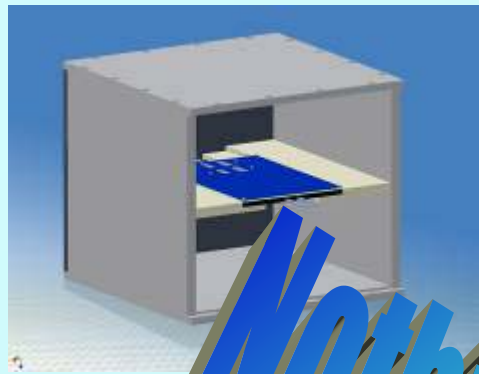
# New Rack Allocations

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No changes this week. Design, analyses and review are on deck.





## Other Work

- VTX, FVTX and NCC prototype support
  - Integration
  - Physical and Rack space
  - Infrastructure upgrades
- New Counting House Door
- VTX Prototype for run 8 ?

Nothing New This Week

Prototype C tests underway

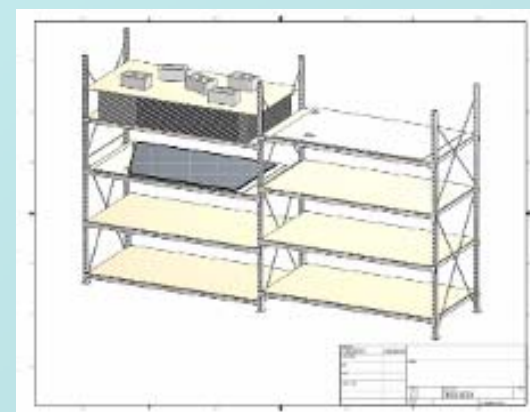
Prototype D in design/fabrication

Additional equipment needed:

transport table

$\frac{1}{2}$  octant/module/gap storage racks

$\frac{1}{2}$  octant handling and transport fixtures



## 1. March 20 safety walkthru: 2 findings:

- a) "Users not wearing ID badges"
- b) "Poor Housekeeping in 1008A"

Who's responsible for  
this mess?  
*This is unacceptable !*



## 2. Back problems are no laughing matter.

- |      |   |
|------|---|
| 2008 | Install stations 1 & 2 of MuTr FEE upgrades (north), 1 octant Cu absorber (S), 1 half otants each RPC2/3 S, MMN sta. 2 scaffolding, MuTr Sta 1 N&S scaffolding, 1 octant of MuTrigger FEE upgrades (south, sta 1 & 2), MuTr N stn. 1 & 3 decaps, MuTrigger rack platforms (N&S), CM crane, remove/replace beampipe, infrastructure upgrades & repairs, misc. subsystem work, 1 RPC rack in South tunnel, MuTrgr FEE N & S racks |
| 2009 | Remove HBD & RXNP, scaffolding in MMS, MuTr S stn. 1 & 3 decaps, RPC2 N, RPC3 N, north Cu absorbers, partial VTX, iFVTX, MuTrgr S sta 1 & 2, MuTrgr S rack, 2 racks in N tunnel, infrastructure upgrades & repairs, misc. subsystem work  |
| 2010 | Remainder of VTX barrel, partial FVTX, south Cu absorber completed, MuTrgr FEE stn. 3 S, any remaining MuTr decaps, infrastructure upgrades & repairs, misc. subsystem work   |
| 2011 | RPC1 N&S, NCC N, remainder of FVTX, DC West upgrade/repair, remove absorbers, infrastructure upgrades & repairs, misc. subsystem work   |
| 2012 | NCC S, upgrades contingency & wishlist, infrastructure upgrades & repairs, misc. subsystem work, TBD new and improved upgrades  |

*\* Years refer to the shutdown year and follow the run with the similar number (i.e. work in 2008 is to be done in the shutdown that follows run 8, and so on)*



*Shutdown 2008: We're off to a good start!*

[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)